

STABILIZATION ALTERNATIVES: 1976-1981**

LAND SURFACE FEATURE	ALTERNATIVES	TECHNIQUES	SCHEDULE	ACRES	COST/ACRE (Dollars)	TOTAL COST* (Dollars)
Waste dump F	1. Topdress with material from on-going stripping operations. Prepare surface, lime if necessary, seed, mulch and fertilize.	Grade at 1 1/2 to 3 1/2 inches to waste dump E. Measure pH with field test kit. If 6.0 apply fine grade limestone and work into surface 6 inches to 12 inches of soil. Check pH periodically and apply additional lime if necessary.	Overburden removal 1976, 1977. Lime 1977, 1978.	85	2,672	227,120
	2. Grade rip surface, and lime.	Grade and lime similar to techniques above.	Grade 1976, 1977. Lime 1977, 1978.	85	128	10,880
Waste dumps C, D, E, H, I, K, U, S	1. Rip surface, lime if necessary	Same liming techniques as for waste dump F	Lime 1976, 1977, 1978	255, allowing for = 55 acres es- tablished with de- sirable perennial vegetation and = 19 acres of waste dump S included as future pits.	104	26,520
	2. Rip surface, lime if necessary. If desirable perennial vegetation is not establishing in three years, mulch, seed and fertilize.	Same liming techniques as for waste dump F. Apply 2 tons/acre straw or hay mulch. Disk into surface 6 inches to 12 inches of soil. Apply 20 lbs/acre seed and cover with 1/4" to 1/2" of topsoil. Apply 40 lbs/acre N and 35 lbs/acre P ₂ O ₅ concurrent with seedling establishment.	Lime as above. Mulch, seed and fertilize July 15-Aug 15 in 1979, 1980, 1981	255 allowing for = 55 acres established with desirable perennial vege- tation and = 19 acres of waste dump S included in open pit.	419	106,845

*These are estimated costs and are intended only to present differences in magnitude for various alternatives. Furthermore, they may need adjusting for future economic trends.

**Waste dumps N, K, W (62 acres) included in open pit stabilization acreage; acreages are given to the nearest estimated acre, and are not rounded off to the nearest 10 acres as in the reclamation plan text.

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1976-1981 (Cont'd)

LAND SURFACE FEATURE	ALTERNATIVES	TECHNIQUES	SCHEDULE	ACRES	COST/ACRE (Dollars)	TOTAL COST (Dollars)
Waste dumps A, B, P, P ₁ , P ₂ , O	1. Rip surface, lime if necessary	Same liming technique as for waste dump F.	Lime 1976, 1977, 1978	96 allow- ing for ≈ 9 acres of P ₁ and P ₂ included in open pits.	104	9,984
	2. Rip surface, lime if necessary. Seed and fertilize	Same liming techniques as for waste dump F. Same seeding and fertilizing techniques as above	Lime 1976, 1977, 1978. Seed and fertilize July 15-Aug 15, 1979, 1980, 1981	96 allow- ing for ≈ 9 acres of P ₁ and P ₂ included in open pits.	219	21,024
Waste dumps G, V, Y, Y ₁ , J	1. Rip surface, lime if necessary	Same liming techniques as for waste dump F.	1978, 1979, 1980	117 allow- ing for ≈ 10 acres of V included in open pit.	104	12,168
	2. Rip surface, lime if necessary, plus mulch and seed	Same liming techniques as for waste dump F. Same mulching and seed- ing techniques as for waste dumps S, D, E, H, C, I, X, U, A, B, P, O	1978, 1979, 1980, 1981	117 allow- ing for ≈ 10 acres of V included in open pit.	384	44,928
Open pits	1. Topdress and grade ≈85 acres of N. Paguete pit to floodplain level, topdress remain- ing Paguate Pit and Jackpile pit with materials from ongoing stripping opera- tions. Rip sur- face, lime if necessary, mulch, seed, fertilize	Same liming, mulching and seeding techniques as for other dumps	1979, 1980, 1981	200	2,702	540,400

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STABILIZATION ALTERNATIVES: 1982-1985

LAND SURFACE FEATURE	ALTERNATIVES	TECHNIQUES	SCHEDULE	ACRES	COST/ ACRE	TOTAL* COST
Waste dumps K, M, L, T, R, Q and north and south dumps	1. Rip surface, lime if necessary, mulch, seed and fertilize.	Same techniques as for waste dumps C, D, E, H, I, X, U, S, A, B, P, O	Lime 1982, 1983, 1984. Mulch, seed, and ferti- lize July 15- August 15, 1982, 1983, 1984.	516	419	216,204
Open pits	1. Topdress pit areas with materials from final stripping oper- ations, rip surface, lime if necessary, mulch, seed and fer- tilize.	Same as above.	Same as above.	1,057	2,678	2,830,646
Storage areas other than stockpiles	1. Rip surface, lime if necessary, mulch, seed and fertilize.	1. Same techniques as for waste dumps.	1985	70, allowing for ≈60 acres occu- pied by buildings	419	29,330
Open pits	1. Fence off pit walls and waterholes. In- sure access to and from pit areas. Rip, lime, mulch, seed and fertilize accessible areas.	1. Use chain link fence for fencing. Same techniques as for waste dumps.	1985	79,200 linear feet of fence	3.20	253,440
Area cleared of stockpiles	1. Rip surface, lime, if necessary, mulch, seed and fertilize.	1. Same techniques as for waste dumps	1985	130, allowing for 39 acres in waste dumps and 45 acres in open pits.	419	54,470

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STABILIZATION ALTERNATIVES* AFTER 1985

LAND SURFACE FEATURE	ALTERNATIVES	TECHNIQUES	SCHEDULE	ACRES	COST/ACRE	TOTAL COST*
Roads	1. Rip surface, lime, if neces- sary, mulch, sand and ferti- lize.	1. Same techniques as for waste dumps	1985	141, allowing for ± 130 acres to re- main as roads	419	59,079

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